

## II. CLAIM AMENDMENTS

1-32. (cancelled)

33. (Currently amended) A method for decoding encoded video information, the method comprising:

determining, via a decoder, a prediction error quantizer from encoded video information, the prediction error quantizer used to quantize prediction error transform coefficients; and wherein the decoder further provides the functions of:

determining an accuracy of motion coefficients based on the prediction error quantizer, the motion coefficients representing the motion of a picture segment; and

decoding encoded video information into an image based on the prediction error quantizer and the accuracy of the motion coefficients.

34. (Previously presented) The method for decoding encoded video information according to claim 33, further comprising:

receiving information indicating a motion coefficient quantizer for determining the accuracy of the motion coefficients.

35. (Previously presented) A decoder for decoding encoded video information, the decoder comprising:

a demultiplexing unit for determining a prediction error quantizer from the encoded video information, the prediction error quantizer used to quantize the prediction error transform coefficients; and

a motion field coding block for determining an accuracy of the motion coefficients based on the prediction error quantizer, the motion coefficients representing the motion of a picture segment.

36. (Previously presented) The decoder for decoding encoded video information according to claim 35, wherein the demultiplexing unit is further configured to:

determine signalling information indicating a motion coefficient quantizer for selecting the accuracy of the motion coefficients from the encoded video information.

37. (Currently amended) ~~A computer software program stored on a computer-readable medium, the software program causing the computer to perform a method for~~ A computer-readable storage medium containing a computer program which, upon execution by a computer, directs the computer to perform the method of:

decoding encoded video information;

determining a prediction error quantizer from the encoded video information, the prediction error quantizer used to quantize the prediction error transform coefficients; and

determining an accuracy of the motion coefficients based on the prediction error quantizer, the motion coefficients representing the motion of a picture segment.

38. (Currently amended) A computer-readable storage medium containing a computer program which, upon execution by a computer, directs the computer to perform the method ~~The computer software program~~ according to claim 37, wherein the method further comprises:

receiving information indicating a motion coefficient quantizer for determining the accuracy of the motion coefficients.

39. (Previously presented) An apparatus comprising a decoder for decoding encoded video information, wherein the decoder comprises:

an inverse quantization unit for determining a prediction error quantizer from motion coefficients of the encoded video information, the prediction error quantizer serving to quantize prediction error transform coefficients; and

a further quantization unit for determining an accuracy of the motion coefficients based on the prediction error quantizer, the motion coefficients representing the motion of a picture segment.

40. (Previously presented) An apparatus according to claim 39 further comprising a connection from the decoder to the further quantization unit for communication of information of the prediction error quantizer from the encoded video information for use in the determining of the accuracy of the motion coefficients.

41. (Previously presented) A method according to claim 33 wherein, in the determining of the accuracy of the motion coefficients, there is a communication of information of the prediction error quantizer from the encoded video information for use in the determining of the accuracy of the motion coefficients.